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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,523	11/30/2001	Gerald H. Johnson	1502-US	1370

7590 10/01/2003
Teradyne Inc.
30801 Agoura Road
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EXAMINER

HE, AMY

ART UNIT PAPER NUMBER

2858

DATE MAILED: 10/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/006,523	JOHNSON ET AL.	
	Examiner	Art Unit	
	Amy He	2858	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on July 15, 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 8-12 and 15 is/are rejected.
- 7) ☒ Claim(s) 6, 7, 13 and 14 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 May 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-5, 8-12, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Wyman et al. (U. S. Patent No. 4, 035, 715).

Referring to claims 1, 3, 4, 8 and 10-11, Wyman discloses a modular power supply architecture (in Figures 1-2 and 7) for automatic test equipment including:

a control module (10) having a control signal output line, the control module including

a control circuitry (16) to generate a control signal output line (output of 16) ; and

a current measurement circuitry (28 which can measure the highest current, column 3, lines 59-63) coupled to the control signal output line (through 18, 20 and 22);

a conditioning circuitry (74 or 68 in Figure 7) coupled to the control signal line;

a plurality of output modules (power module 2-N) having respective control inputs coupled in parallel to the control signal output line to receive the control signal and having respective current outputs connected in parallel, the plurality of output modules

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operative in response to the control signal to generate respective currents (current generated at 28, column 3, lines 59-63) at the plurality of current outputs; and

a current output bus (24 in Figures 1-2 or 28 in Figure 2) disposed at the plurality of current outputs for summing the respective current outputs, the output bus being isolated from the control signal line.

Referring to claims 2 and 9, Wyman discloses the control circuitry (in Figure 7) includes:

an error amplifier (column 6, lines 28-29) for detecting the difference between a desired power supply output and the actual power supply output, and operative to generate an error signal to correct for the detected difference;

a main loop amplifier circuit (amplifier 68) coupled to the output of the error amplifier;

a rectifier (82) having inputs tied to the main loop amplifier and operative to determine whether the error signal requires source or sink current, the rectifier including source and sink circuitry to generate respective source or sink current control signals; and

driver circuitry (64-65) coupled to the rectifier to condition the source or sink current control signals.

Referring to claims 5 and 12, Wyman et al. discloses the modular power supply architecture of claims 1, 4 and 8, wherein the conditioning circuitry includes:

biasing circuitry (74 in Figure 7) for generating a bias current signal for the plurality of output modules (power modules 2-N in Figures 1-2); and

clamping circuitry (74 in Figure 7 can also be considered as a clamping circuitry since it provides positive and negative DC levels, column 9, lines 23-27) for establishing maximum and minimum current levels.

Referring to claim 15, it is the method claim corresponding to the rejected apparatus claims (claims 1 or 8). It is rejected for the same reasons as stated above for the rejection of the apparatus claims.

Allowable Subject Matter

2. Claims 6-7 and 13-14 are objected to as being dependent upon a rejected base claim (claims 1 and 8), but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

3. Applicant's arguments filed July 15, 2003, with respect to the 102 rejections using Henze reference have been fully considered and are persuasive. The 102 rejections as being anticipated by Henze have been withdrawn.

4. Applicant's arguments with respect to the 102 rejections using the Wyman reference have been fully considered but they are not persuasive. Applicant argues that Wyman reference teaches using voltage sources with low output impedances while claims 1 and 8 are for using current sources with high output impedances. However, Applicant fails to recite this limitation in the claim. In other words, "current sources with low output impedances" is not claimed in claims 1 and 8. Thus, claims 1 and 8 remain rejected under 102 as being anticipated by Wyman.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy He whose telephone number is (703) 305-3360.

The examiner can normally be reached on 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on 703-308-0750. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4900.

AH

September 29, 2003



N. Le
Supervisory Patent Examiner
Technology Center 2800